

**November 1981**

**A.E. Res. 81-23**

**LIVESTOCK**  
**COSTS AND RETURNS**  
**FROM**  
**FARM COST ACCOUNTS**

**27 FARMS-1980**  
**NEW YORK STATE**

**Darwin P. Snyder**

Department of Agricultural Economics  
Cornell University Agricultural Experiment Station  
New York State College of Agriculture and Life Sciences  
A Statutory College of the State University  
Cornell University, Ithaca, New York 14853

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REPORTS  
from  
FARM COST ACCOUNTS

27 Farms, 1980

Enterprise data from the 1980 New York Farm Cost Account Project have been published in the following reports. Additional copies may be obtained from County Extension offices or directly from the Department of Agricultural Economics, Cornell University, Ithaca, New York 14853-0398.

Overhead Costs	A.E. Res.	81-22
Livestock Costs and Returns	A.E. Res.	81-23
Field Crops Costs and Returns	A.E. Res.	81-24
Fruit and Vegetable Crops Costs and Returns	A.E. Res.	81-25

Livestock Costs and Returns, A.E. Res. 81-23

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## INTRODUCTION

The New York Farm Cost Account Project is a research project which is a part of the Cornell Agricultural Management Information System (CAMIS). Since 1914 data have been published from detailed enterprise records kept by New York farmers in cooperation with the Department of Agricultural Economics at Cornell University. These publications provide College and field staff as well as farmers and others interested in agriculture with a continuous record of economic changes taking place on New York farms.

The farms are located in most of the farming areas of the State. They are generally well-managed, full-time, commercial farm businesses. They are representative of the "better" farms in New York.

The reports present the results of individual enterprises and the averages of the enterprise costs and returns for all farms. They show not only the averages of cost and returns but also indications of the variations and reasons for them. The factors for individual enterprises are arranged according to size of enterprise. The annual averages of the various factors are not averages of average costs but are weighted by the size of the enterprise.

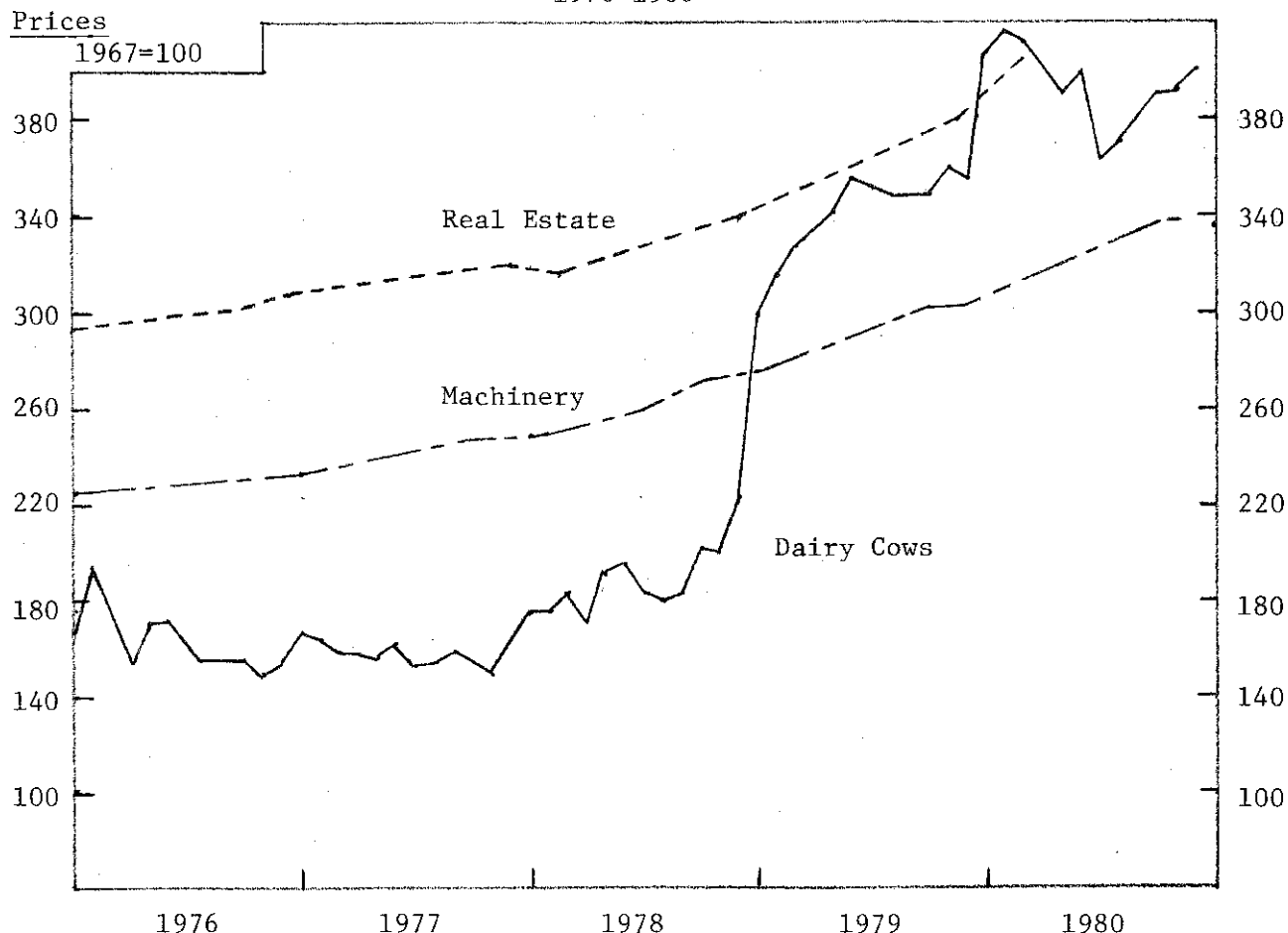
### Acknowledgements

The project was under the supervision of Darwin Snyder, who also did the field work necessary to complete the records. Editing and processing the data, closing the books, and the preparation of these reports was done by Barbara Wilcox and Florence Blodgett assisted by Oneta Shipe. Mary Chaffee typed and assembled the reports and assisted in processing the data.

The material on pages 2, 3, and 4 of this report was taken from A.E. Res. 81-10, Dairy Farm Management, Business Summary, New York, 1980, by Stuart F. Smith.

Special acknowledgement is due the group of farmers who are willing to keep the detailed records so essential to such a system of enterprise cost accounting. Without their continuing efforts and willingness to provide this information, this important and accurate source of real farm data would not exist.

VALUE OF NEW YORK FARM REAL ESTATE, DAIRY COWS & MACHINERY  
1976-1980



Price changes have a direct affect on the inventory values on New York dairy farms. Real estate and machinery prices have risen steadily during the past five years. Dairy cow prices rose sharply in late 1975, fluctuated throughout 1976, 1977, and most of 1978, and then jumped 130 percent between November 1978 and February 1980. Dairy Cow prices weakened during the first half of 1980 but finished strong at \$1,240 per head in December. From 1967 to 1980, machinery prices have increased 238 percent, dairy cows 400 percent and real estate 306 percent.

Table 1. REPORTED VALUES OF DAIRY FARM INVENTORY ITEMS, 1975-1980

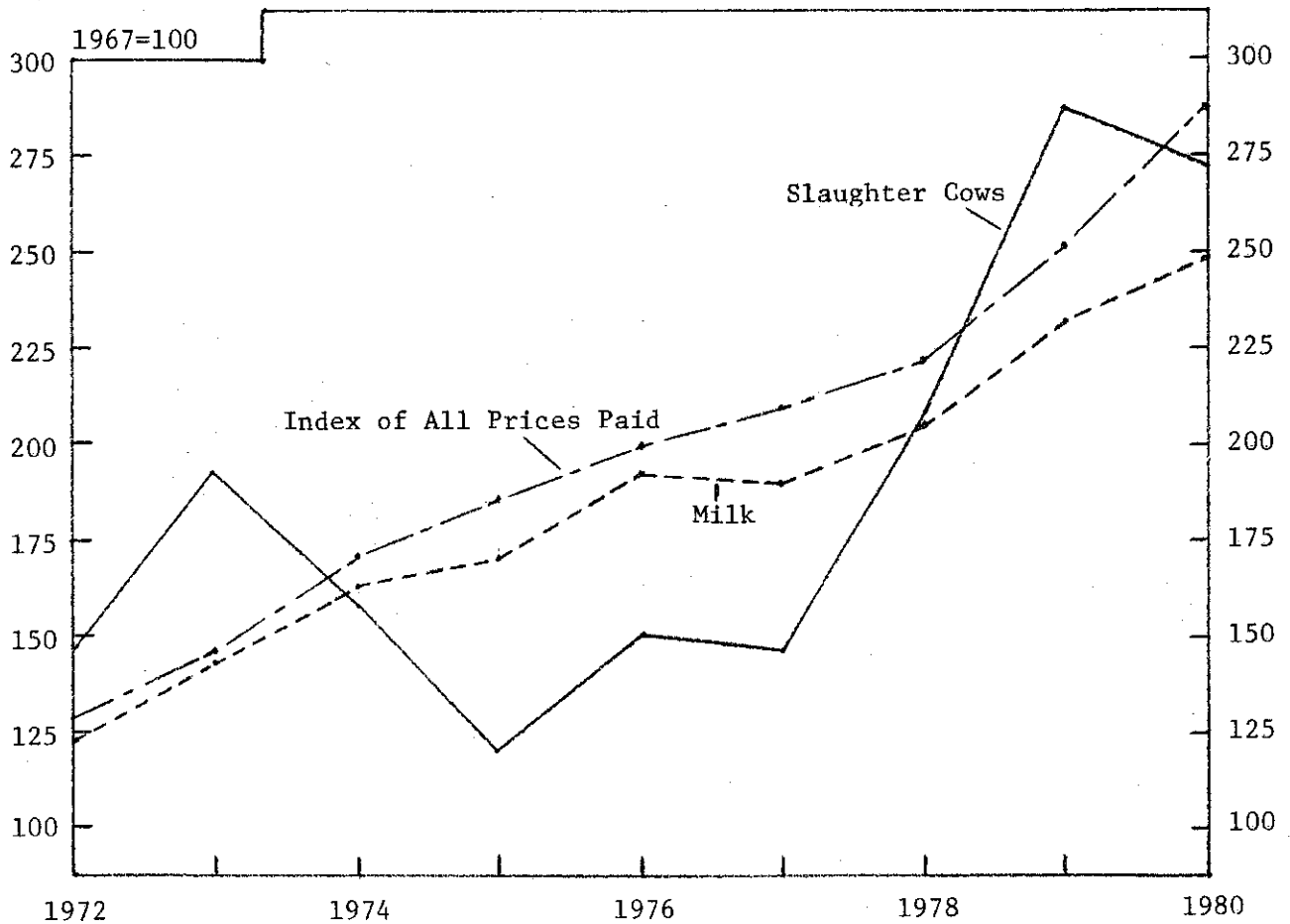
Year*	N.Y. Dairy Cows		Machinery	N.Y. Farm Real Estate	
	Value/Head	1967=100		Value/Acre	1967=100
1975	(Dec.) \$450	145	(Dec.) 222	(Nov.) \$543	294
1976	(Dec.) 485	156	(Dec.) 233	(Nov.) 562	304
1977	(Dec.) 495	160	(Dec.) 253	(Nov.) 593	320
1978	(Dec.) 800	258	(Dec.) 276	(Nov.) 629	339
1979	(Dec.) 1105	356	(Dec.) 305	(Nov.) 704	381
1980	(Dec.) 1240	400	(Dec.) 338	(Feb.) 752	406

Percent change:

1975 to 1976	+ 8%	+ 5%	+ 3%
1976 to 1977	+ 3%	+ 9%	+ 5%
1977 to 1978	+62%	+ 9%	+ 6%
1978 to 1979	+38%	+ 9%	+12%
1979 to 1980	+12%	+11%	+ 6%

\*Latest figure reported for year, i.e., February for real estate.

PRICES RECEIVED AND PAID BY NEW YORK DAIRY FARMERS, 1972-1980

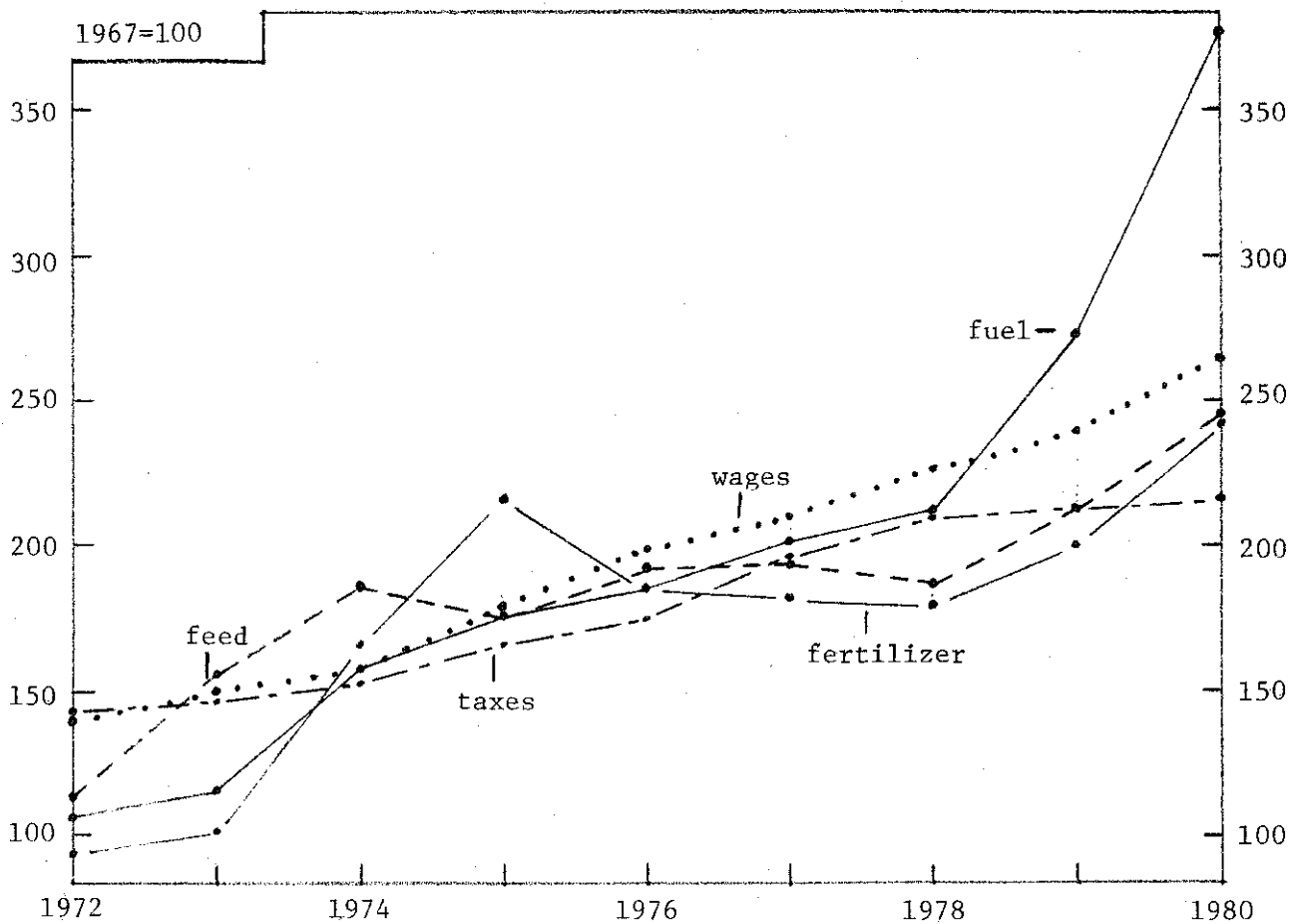


The relationship of prices received to prices paid is a major factor in determining farm income. The graph above shows the trend in prices since 1972 for milk, cull cows, and the index of prices paid by New York dairy farmers. Milk prices have lagged behind all prices paid since 1972 and the gap became greatest in 1980. Slaughter cow prices softened in 1980 after a dramatic rise of nearly 100 percent in two years.

Table 2. PRICES RECEIVED & PAID BY NEW YORK DAIRY FARMERS, 1970-1980

Year	Milk 3.5% B.F. (cwt.)	Slaughter Cows (cwt.)	Prices Paid by N.Y. Dairy Farmers (1967=100)	Monthly Farm Price Per 100 Lbs. of Milk, 1980	
1970	\$ 5.89	\$20.70	112	January	\$12.25
1971	6.02	21.20	120	February	12.24
1972	6.25	24.48	126	March	12.08
1973	7.30	32.80	146	April	11.96
1974	8.24	27.40	172	May	11.90
				June	11.92
1975	8.64	20.60	186	July	12.48
1976	9.71	25.57	200	August	13.01
1977	9.61	25.09	210	September	13.31
1978	10.38	35.58	221	October	13.57
1979	11.74	49.27	252	November	13.54
				December	13.44
1980	12.64	46.23	288		

PRICES PAID BY FARMERS FOR SELECTED ITEMS, 1972-1980



Prices of major farm inputs have all increased since 1972 but only wages paid by farmers have increased at a fairly constant rate. Feed prices rose 15 percent in 1980. Fertilizer prices increased 20 percent in 1980. Fuel prices jumped 29 percent in 1979 following four years of single digit increases and increased by 39 percent in 1980.

Table 3. PRICES PAID BY FARMERS FOR SELECTED ITEMS, 1972-1980

Year	Index 1967=100				
	Feed	Fertilizer	Fuel	Wages	Taxes
1972	112	94	108	140	142
1973	157	102	116	150	146
1974	185	167	159	160	154
1975	177	217	177	180	166
1976	192	185	187	199	176
1977	194	182	203	212	195
1978	186	180	212	229	210
1979	213	202	273	241	213
1980	245	242	380	264	216

Percent increase:

1972 to 1979

(average per year) 13% 16% 22% 10% 8%

1979 to 1980 15% 20% 39% 9% 1%

SOURCE: USDA Agricultural Prices

Table 1. TEMPERATURE, PRECIPITATION AND GROWING SEASON  
Selected Stations, New York, 1941-70 and 1980

Station	Average temperature		Precipitation				Length of growing season*	
	May - Sept.		May - Sept.		Total Annual		1947-67	1980
	1941-70	1980	1941-70	1980	1941-70	1980		
	degrees			inches			days	
Albany	65.7	65.7	15.4	17.3	33.4	32.6	---	169
Alfred	61.8	62.0	17.2	14.1	36.7	33.2	125	123
Aurora	64.6	64.5	13.8	15.6	40.0	31.7	160	170
Batavia	64.1	65.2	15.3	17.8	32.6	31.5	154	156
Binghamton	63.3	64.8	17.9	13.7	37.4	34.8	154	170
Canton	63.0	61.9	16.5	15.7	34.5	34.0	127	107
Glens Falls	----	63.4	17.8	11.0	39.3	26.1	---	136
Ithaca	63.8	63.6	17.2	13.1	34.8	31.4	145	136
Lowville	62.5	62.3	16.5	16.9	38.5	42.2	123	136
Utica	63.5	64.1	18.1	15.1	40.6	36.1	157	170

\* Days between the last temperature of 32 degrees in the spring and the first in the fall.

Source: Climatological Data, NOAA, Environmental Data Service, Annual Summary, New York, 1980, Vol. 92, No. 13.

Weather is a factor to be considered when studying a farm business for a specific year. The growing conditions have a market effect on the crops for that year. It is for this reason that data are presented on the growing conditions for 1980 and for the period 1941-70.

The 1980 growing season in New York resulted in a good crop year with average season temperatures and somewhat less than average precipitation. Low moisture levels from a short snowfall during the winter were made up by above normal rainfall in March and early April. The most notable variations in weather during the growing season were abnormally warm, dry conditions in May and August. June and October were notably cooler than normal. Good planting conditions in May were followed by cool, wet weather during June. Fall harvest conditions were generally good throughout September and October.

Data in Tables 1 and 2 are presented for ten weather stations located throughout the State.

Table 2. GROWING SEASON RAINFALL  
Selected Stations, New York, 1941-70 and 1980

Station	May		June		July		August		September	
	1941-70	1980	1941-70	1980	1941-70	1980	1941-70	1980	1941-70	1980
	inches									
Albany	3.26	1.05	3.00	4.90	3.12	2.69	2.87	6.45	3.12	2.24
Alfred	3.76	1.39	3.76	3.44	3.73	1.16	3.00	5.49	2.93	2.65
Aurora	2.98	1.03	2.54	5.63	3.03	3.24	2.81	2.85	2.46	2.87
Batavia	3.17	1.70	2.69	8.01	3.05	2.31	3.50	1.55	2.87	4.23
Binghamton	3.83	1.54	3.59	5.68	3.83	2.09	3.61	1.58	3.02	2.81
Canton	3.37	0.93	2.91	2.22	3.43	4.43	3.47	3.35	3.31	4.78
Glens Falls	3.63	1.10	3.77	2.92	3.68	2.07	3.42	1.94	3.31	2.99
Ithaca	3.55	1.37	3.40	4.13	3.67	3.43	3.49	1.98	3.08	2.21
Lowville	3.42	1.98	2.94	3.89	3.26	6.42	3.58	1.07	3.31	3.49
Utica	3.52	1.37	3.55	4.56	4.17	5.26	3.54	1.47	3.32	2.41

Source: Climatological Data, NOAA, Environmental Data Service, Annual Summary, New York, 1980, Vol. 92, No. 13.



YIELDS FOR CROPS AND LIVESTOCK  
New York State and Farm Cost Account Averages

Item	Unit	New York State*				Cost Account
		1957-61	1967-71	1979	1980	1980
Hay	tons	1.9	2.2	2.3	2.4	2.8
Corn silage	tons	11	14	13.0	14.5	14.6
Corn grain	bu.	57	85	85	93	99
Oats	bu.	52	60	62	64	---
Wheat	bu.	32	39	41	40	50
Milk per cow	lbs.	7,914	10,361	11,746	12,026	15,894

\*Source: New York Agricultural Statistics, 1980; Crop Reporting Service, USDA.

FARM COST ACCOUNT SUMMARY, 1980

Crop Enterprises

Crop	Number of enterprises	Average acres per enterprise	Yield per acre	Hours of labor per acre*	Return per		Profit per acre	Profit on enterprise
					Hour of labor	Dollar of cost		
					\$	\$	\$	\$
<u>Forage:</u>								
Hay	19	70	2.8 tn	7	0.02	0.81	- 38	-2,632
Hay crop silage	16	157	7.2 tn	4	5.82	1.00	- 1	- 152
Corn silage	18	122	14.6 tn	5	5.86	0.99	- 3	- 417
<u>Grain:</u>								
Corn for grain	6	55	100 bu	3	23.76	1.28	72	3,907
High moist. corn	14	144	3.6 tn	4	22.68	1.23	59	8,578
Oats	---	---	---	---	---	---	---	---
Wheat	11	150	50 bu	2	22.46	1.21	35	5,236
<u>Fruit:</u>								
Apples	13	97	595 bu	94	5.52	0.91	-130	-12,544
Red tart cherries	8	34	8,171 lb	55	17.29	1.62	659	22,267

\* To grow and harvest the crop.

ENTERPRISE RATES OF RETURN  
FARM COST ACCOUNT RECORDS, 1977-80

Enterprise	Return per hour of labor				Return per dollar of cost			
	1977	1978	1979	1980	1977	1978	1979	1980
	\$	\$	\$	\$	\$	\$	\$	\$
<u>Livestock:</u>								
Dairy cows	5.07	9.01	10.77	10.64	1.03	1.13	1.15	1.11
Dairy heifers	-1.43	2.23	3.97	5.94	0.78	0.92	0.96	0.99
<u>Forage:</u>								
Hay	5.15	3.31	0.90	0.02	1.05	0.94	0.84	0.81
Hay crop silage	3.19	-2.52	0.39	5.82	0.96	0.79	0.87	1.00
Corn silage	6.73	4.46	9.05	5.86	1.07	0.98	1.07	0.99
<u>Grain:</u>								
Corn for grain	-0.99	0.00	5.12	23.76	0.87	0.92	1.00	1.28
High moisture corn	7.10	6.98	18.84	22.68	1.07	1.04	1.22	1.23
Oats	-17.76	-3.92	-18.35	NA	0.54	0.77	0.63	NA
Wheat	-2.13	-4.11	22.68	22.46	0.84	0.75	1.26	1.21
<u>Fruits:</u>								
Apples	8.72	7.61	7.39	5.52	1.36	1.19	1.07	0.91
Sweet cherries	7.32	7.45	NA	NA	1.23	1.29	NA	NA
Red tart cherries	17.71	43.59	33.16	17.29	1.64	3.43	2.80	1.62

Dairy Cows -

Dairy cow values were about a third higher at the beginning of 1980 than a year earlier. According to the New York Crop Reporting Board, cow values for the first half of the year began at \$1,160 per head, increased to \$1,200 and returned to \$1,160 in July. From that point, values increased to a high of \$1,250 in November and closed the year at \$1,240. The average value for the year was about \$1,200 per head - an increase of 15% over the 1979 average. Cull beef prices began at about \$47 per cwt, rose briefly and then varied between \$45 and \$47 per cwt. throughout the year to end at about \$45 per cwt. Bob calf prices trended downward during the year especially during the last half. Beginning at about \$83 per cwt, bob calves ended the year at \$69 and averaged \$78 per cwt. Both cull beef and bob calf prices were second only to the 1979 record prices.

Since these dairy enterprises represent commercial herds where herd dispersals are not a factor, cow values at the beginning of the year were adjusted upward to prevent unrealized capital gain from inflating dairy cow enterprise profits. Thus, 1980 profits on these dairy enterprises are not directly affected by the increase in cow values during the year. However, profits are affected by the change in cull beef and bob calf prices as dairymen disposed of livestock in the normal conduct of their herd management practices. Also, higher values for cows in the dairy herd resulted in higher interest charges for the investment in the cow.

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DAIRY COWS, 1980  
COSTS AND RETURNS PER DAIRY COW  
3,098 COWS ON 19 COST ACCOUNT FARMS

ITEM	AVERAGE PER COW
<b>COSTS:</b>	
DEPRECIATION - - - - -	\$ 169
FEED - 3,686 LBS OF DRY GRAIN - - - - -	\$ 384
2.2 TONS OF HIGH MOISTURE CORN - - - - -	163
0.6 TONS OF HAY - - - - -	36
4.3 TONS OF HAY CROP SILAGE - - - - -	111
7.2 TONS OF CORN SILAGE - - - - -	143
PASTURE AND ALL OTHER FEED - - - - -	44
TOTAL FEED COST PER COW - - - - -	881
LABOR - 51 HOURS - - - - -	320
TRACTOR, TRUCK - - - - -	31
EQUIPMENT - - - - -	91
BEDDING - - - - -	14
BREEDING - - - - -	20
VET AND MEDICINE - - - - -	34
MILK HAULING - - - - -	59
MILK TESTING - - - - -	10
SUPPLIES - - - - -	25
UTILITIES - - - - -	27
INSURANCE - - - - -	6
INTEREST ON VALUE OF COW - - - - -	85
BUILDING USE - - - - -	79
ALL OTHER - - - - -	106
TOTAL OTHER THAN DEPREC, FEED, LABOR - - - - -	587
TOTAL COSTS - - - - -	\$ 1,957
<b>RETURNS:</b>	
15,788 POUNDS OF MILK SOLD - - - - -	\$2,077
106 POUNDS OF MILK USED ON FARM - - - - -	14
CALVES - - - - -	89
OTHER RETURNS - - - - -	2
TOTAL RETURNS - - - - -	\$ 2,182
PROFIT: - - - - -	\$ 225
<b>OTHER FACTORS - AVG PER CWT OF MILK:</b>	
ALL GRAIN COST	\$ 3.44
TOTAL FEED COST	5.54
LABOR COST	2.02
TOTAL COST	\$ 11.74
RETURNS	13.15
MILK PRODUCED PER HOUR OF LABOR	311 LB
RETURN PER HOUR OF LABOR	\$ 10.64
RETURN PER DOLLAR OF COST	1.11

FACTORS FROM 20 DAIRY COW ENTERPRISES  
19 COST ACCOUNT FARMS, 1980  
(ARRANGED BY NUMBER OF COWS)

FARM NO	HERD SIZE NO	MILK			FEED PER COW					VET MED COST/ COW \$
		MILK PER COW LB	LABOR PER COW HR	PER HR OF LABOR LB	DRY GRAIN LB	HIGH MSTR CORN TN	HAY CROP HAY TN	SILG SILG TN	CORN SILG TN	
834	551	16,300	45	366	1,517	3.6	.2	3.4	5.6	24
827	383	16,420	49	333	1,258	2.8	.2	5.2	6.0	31
812	289	18,510	44	423	6,457			3.9	12.8	53
806	242	15,858	40	400	2,719	2.4	.1	4.9	9.3	31
824	198	15,871	34	463	2,414	2.5	.1	6.0	3.4	54
830	169	16,985	60	285	4,414	3.1	1.1	3.4	5.0	48
821	152	14,079	44	319	5,092	2.6	.5	2.1	9.7	23
804	151	14,399	47	308	7,497		.5	3.6	11.6	43
840	146	15,833	46	344	6,397		.2	7.2	9.3	22
105	125	14,440	65	223	2,432	3.4	.9	5.5	5.0	35
835	123	14,015	49	287	5,350	3.6	1.3	7.6	4.3	60
112	100	16,559	71	233	6,260	2.6	1.8	3.4	6.9	20
111*	99	18,083	83	217	2,646	3.7	.3	10.1	3.8	14
836	80	14,355	61	236	5,450		2.3		7.6	23
843*	54	13,985	54	261	5,370		5.6			22
146*	51	11,508	118	97	2,627	2.4	2.6	1.0	5.9	31
828*	50	14,782	86	171	1,440	4.9	.9	6.6	5.8	63
156*	50	13,300	63	210	4,600		1.4		13.2	16
127*	45	15,389	49	316	5,689		1.8	2.1	10.3	42
111*	40	14,568	66	222	6,150		1.8	2.5	8.8	17

1980 GROUP AVERAGES, ACCORDING TO NUMBER OF COWS:

THIRDS

HIGH	283	16,289	46	370	3,411	2.5	.4	4.1	7.5	38
MED	124	15,555	61	269	5,097	2.3	.9	6.3	6.9	32
LOW	53	13,984	71	217	4,476	1.1	2.4	1.8	7.4	31

ANNUAL AVERAGES, ALL ENTR, WEIGHTED BY NUMBER OF COWS:

1980	155	15,894	51	311	3,686	2.2	.6	4.3	7.2	34
1979	150	15,372	51	303	4,521	1.8	.7	3.6	8.0	37
1978	142	15,051	50	300	4,357	1.5	.6	3.6	7.8	33
1977	130	14,344	54	264	4,272	1.7	.7	4.1	7.5	26
1976	128	14,455	55	263	4,586	1.3	.6	4.3	8.6	26

\* STANCHION BARNS

See note on page 8.

FACTORS FROM 20 DAIRY COW ENTERPRISES  
19 COST ACCOUNT FARMS, 1980  
(READ ACROSS BOTH PAGES)

AVG COST PER COW		AVG PER CWT OF		AVERAGE			RETURN PER		PROFIT		FARM NO.
FOR		MILK		PER COW			HOURLY	OF	ON	ENTER- PRISE	
FEED	LABOR	COST	RETURN	COST	TURN	FIT	LABOR	COST			
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
795	291	10.12	13.24	1728	2237	509	17.94	1.29	280,078	834	
733	392	11.32	13.13	1932	2229	297	13.98	1.15	113,703	827	
1,033	378	11.63	13.02	2256	2513	257	14.52	1.11	74,201	812	
948	290	12.81	13.80	2135	2292	157	11.28	1.07	37,956	806	
674	191	9.69	12.30	1625	2039	414	17.66	1.25	82,024	824	
874	281	10.04	12.93	1862	2352	490	12.92	1.26	82,788	830	
1,074	279	14.34	13.75	2111	2028	83-	4.44	0.96	12,678-	821	
1,055	327	14.06	13.88	2077	2051	26-	6.44	0.99	3,927-	804	
1,025	279	11.61	13.08	1954	2187	233	11.11	1.12	33,904	840	
820	346	12.75	13.07	1924	1971	47	6.08	1.02	5,904	105	
1,106	217	14.02	12.82	2069	1900	169-	0.99	0.92	20,803-	835	
1,083	273	12.66	12.40	2181	2136	45-	3.22	0.98	4,415-	112	
897	467	11.25	13.74	2138	2587	449	11.01	1.21	44,464	111	
572	528	12.28	12.92	1838	1930	92	10.21	1.05	7,416	836	
840	300	13.77	12.52	1998	1823	175-	2.33	0.91	9,463-	843	
697	452	14.22	12.76	1689	1521	168-	2.41	0.90	8,567-	146	
864	404	12.81	12.63	2004	1976	28-	4.36	0.99	1,385-	828	
843	208	14.02	13.49	1936	1866	70-	2.17	0.96	3,540-	156	
909	275	13.65	13.43	2244	2210	34-	4.96	0.98	1,515-	127	
1,004	409	13.79	13.46	2077	2028	49-	5.52	0.98	1,924-	111	

1980 GROUP AVERAGES, ACCORDING TO NUMBER OF COWS:

										THIRDS
876	301	11.42	13.17	1951	2242	292	13.25	1.16	94,010	HIGH
998	319	12.73	13.17	2058	2139	82	6.48	1.04	9,188	MED
819	369	13.51	13.03	1970	1908	61-	4.57	0.97	2,710-	LOW

ANNUAL AVERAGES, ALL ENTR, WEIGHIED BY NUMBER OF COWS:

881	320	11.74	13.15	1957	2182	225	10.64	1.11	34,711	1980
796	281	10.47	12.19	1713	1978	265	10.77	1.15	39,786	1979
709	253	9.53	10.86	1501	1700	199	9.01	1.13	28,352	1978
695	229	9.58	9.90	1413	1460	47	5.07	1.03	6,085	1977
666	237	9.12	10.04	1356	1489	133	6.73	1.10	17,005	1976

STANCHION BARN HERDS  
DAIRY COWS, 1980  
COSTS AND RETURNS PER DAIRY COW  
335 COWS ON 5 COST ACCOUNT FARMS

ITEM	AVERAGE PER COW
<b>COSTS:</b>	
DEPRECIATION - - - - -	\$ 150
FEED - 3,582 LBS OF DRY GRAIN - - - - -	\$ 366
2.2 TONS OF HIGH MOISTURE CORN - - - - -	147
1.3 TONS OF HAY - - - - -	73
4.7 TONS OF HAY CROP SILAGE - - - - -	124
7.3 TONS OF CORN SILAGE - - - - -	143
PASTURE AND ALL OTHER FEED - - - - -	15
TOTAL FEED COST PER COW - - - - -	868
LABOR - 79 HOURS - - - - -	384
TRACTOR, TRUCK - - - - -	26
EQUIPMENT - - - - -	75
BEDDING - - - - -	23
BREEDING - - - - -	22
VET AND MEDICINE - - - - -	28
MILK HAULING - - - - -	82
MILK TESTING - - - - -	14
SUPPLIES - - - - -	32
UTILITIES - - - - -	30
INSURANCE - - - - -	6
INTEREST ON VALUE OF COW - - - - -	88
BUILDING USE - - - - -	68
ALL OTHER - - - - -	130
TOTAL OTHER THAN DEPREC, FEED, LABOR -	624
TOTAL COSTS - - - - -	\$ 2,026
<b>RETURNS:</b>	
15,018 POUNDS OF MILK SOLD - - - - -	\$2,005
76 POUNDS OF MILK USED ON FARM - - - - -	10
CALVES - - - - -	88
OTHER RETURNS - - - - -	6
TOTAL RETURNS - - - - -	\$ 2,109
<b>PROFIT:</b> - - - - -	\$ 83
<b>OTHER FACTORS - AVG PER CWT OF MILK:</b>	
ALL GRAIN COST	\$ 3.40
TOTAL FEED COST	5.75
LABOR COST	2.54
TOTAL COST	\$ 12.81
RETURNS	13.35
MILK PRODUCED PER HOUR OF LABOR	191 LB
RETURN PER HOUR OF LABOR	\$ 5.88
RETURN PER DOLLAR OF COST	1.04

DAIRY COWS, 1980  
COSTS AND RETURNS PER DAIRY COW  
2,709 COWS ON 13 COST ACCOUNT FARMS

ITEM	AVERAGE PER COW
<b><u>COSTS:</u></b>	
DEPRECIATION - - - - -	\$ 170
FEED - 3,666 LBS OF DRY GRAIN - - - - -	\$ 384
2.3 TONS OF HIGH MOISTURE CORN - - - - -	168
0.5 TONS OF HAY - - - - -	25
4.3 TONS OF HAY CROP SILAGE - - - - -	112
7.3 TONS OF CORN SILAGE - - - - -	146
PASTURE AND ALL OTHER FEED - - - - -	48
TOTAL FEED COST PER COW - - - - -	883
LABOR - 48 HOURS - - - - -	313
TRACTOR, TRUCK - - - - -	32
EQUIPMENT - - - - -	94
BEDDING - - - - -	13
BREEDING - - - - -	20
VET AND MEDICINE - - - - -	35
MILK HAULING - - - - -	57
MILK TESTING - - - - -	10
SUPPLIES - - - - -	24
UTILITIES - - - - -	26
INSURANCE - - - - -	6
INTEREST ON VALUE OF COW - - - - -	84
BUILDING USE - - - - -	78
ALL OTHER - - - - -	103
TOTAL OTHER THAN DEPREC, FEED, LABOR -	582
TOTAL COSTS - - - - -	\$ 1,948
<b><u>RETURNS:</u></b>	
15,925 POUNDS OF MILK SOLD - - - - -	\$2,093
107 POUNDS OF MILK USED ON FARM - - - - -	14
CALVES - - - - -	89
OTHER RETURNS - - - - -	2
TOTAL RETURNS - - - - -	\$ 2,198
<b><u>PROFIT:</u></b> - - - - -	\$ 250
<b>OTHER FACTORS - AVG PER CWT OF MILK:</b>	
ALL GRAIN COST	\$ 3.44
TOTAL FEED COST	5.51
LABOR COST	1.95
TOTAL COST	\$ 11.58
RETURNS	13.14
MILK PRODUCED PER HOUR OF LABOR	336 LB
RETURN PER HOUR OF LABOR	\$ 11.80
RETURN PER DOLLAR OF COST	1.13



FACTORS FROM 19 DAIRY COW ENTERPRISES  
19 COST ACCOUNT FARMS, 1980  
(ARRANGED BY NUMBER OF COWS)

FARM NO	HERD SIZE NO	MILK			FEED PER COW					VET MED COST/ COW \$
		MILK PER COW LB	LABOR PER COW HR	PER HR OF LABOR LB	DRY GRAIN LB	HIGH MSTR TN	HAY CROP TN	SILG CORN TN	SILG SILG TN	

6 STANCHION BARN HERDS:

111	99	18,083	83	217	2,646	3.7	.3	10.1	3.8	14
146	51	11,508	118	97	2,627	2.4	2.6	1.0	5.9	31
828	50	14,782	86	171	1,440	4.9	.9	6.6	5.8	63
156	50	13,300	63	210	4,600		1.4		13.2	16
127	45	15,389	49	316	5,689		1.8	2.1	10.3	42
111	40	14,568	66	222	6,150		1.8	2.5	8.8	17

ANNUAL AVERAGES, ALL ENTR, WEIGHTED BY NUMBER OF COWS:

1980	56	15,094	79	191	3,582	2.2	1.3	4.7	7.3	28
1979	51	14,337	80	180	4,922	1.1	2.4	2.4	5.9	28
1978	51	14,178	89	160	3,741	1.4	1.7	3.6	4.4	30
1977	53	13,503	90	150	4,050	1.5	1.7	4.1	6.3	23
1976	48	13,530	92	147	5,224	.8	1.6	4.4	6.6	24

See note on page 8.

13 FREESTALL BARN HERDS:

834	551	16,300	45	366	1,517	3.6	.2	3.4	5.6	24
827	383	16,420	49	333	1,258	2.8	.2	5.2	6.0	31
812	289	18,510	44	423	6,457			3.9	12.8	53
806	242	15,858	40	400	2,719	2.4	.1	4.9	9.3	31
824	198	15,871	34	463	2,414	2.5	.1	6.0	3.4	54
830	169	16,985	60	285	4,414	3.1	1.1	3.4	5.0	48
821	152	14,079	44	319	5,092	2.6	.5	2.1	9.7	23
804	151	14,399	47	308	7,497		.5	3.6	11.6	43
840	146	15,833	46	344	6,397		.2	7.2	9.3	22
105	125	14,440	65	223	2,432	3.4	.9	5.5	5.0	35
835	123	14,015	49	287	5,350	3.6	1.3	7.6	4.3	60
112	100	16,559	71	233	6,260	2.6	1.8	3.4	6.9	20
836	80	14,355	61	236	5,450		2.3		7.6	23

ANNUAL AVERAGES, ALL ENTR, WEIGHTED BY NUMBER OF COWS:

1980	208	16,031	48	336	3,666	2.3	.5	4.3	7.3	35
1979	208	15,521	47	333	4,463	1.8	.4	3.8	8.3	38
1978	203	15,197	44	348	4,460	1.5	.4	3.6	8.3	33
1977	193	14,534	46	314	4,322	1.7	.5	4.1	7.8	27
1976	188	14,632	48	306	4,463	1.4	.5	4.2	9.0	26

See note on page 8.

FACTORS FROM 19 DAIRY COW ENTERPRISES  
19 COST ACCOUNT FARMS, 1980  
(READ ACROSS BOTH PAGES)

AVG COST		AVG PER		AVERAGE		RETURN PER		PROFIT		
PER COW		CWT OF		PER COW		HOUR \$		ON		
FOR		MILK		RE- PRO-		OF OF		ENTER- FARM		
FEED	LABOR	COST	RETURN	COST	TURN	EII	LABOR	COST	RISE	NO
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	

6 STANCHION BARN HERDS:

897	467	11.25	13.74	2138	2587	449	11.01	1.21	44,464	111
697	452	14.22	12.76	1689	1521	168-	2.41	0.90	8,567-	146
864	404	12.81	12.63	2004	1976	28-	4.36	0.95	1,385-	828
843	208	14.02	13.49	1936	1866	70-	2.17	0.96	3,540-	156
909	275	13.65	13.43	2244	2210	34-	4.96	0.98	1,515-	127
1,004	409	13.79	13.46	2077	2028	49-	5.52	0.98	1,924-	111

ANNUAL AVERAGES, ALL ENTR, WEIGHTED BY NUMBER OF COWS:

868	384	12.81	13.35	2026	2109	83	5.88	1.04	4,585	1980
812	313	11.60	11.96	1754	1806	52	4.59	1.03	2,662	1979
669	310	10.25	10.47	1519	1550	31	3.83	1.02	1,566	1978
709	300	10.77	9.67	1493	1345	148-	1.69	0.90	7,911-	1977
666	305	10.28	9.76	1426	1357	69-	2.55	0.95	3,333-	1976

13 FREESTALL BARN HERDS:

795	291	10.12	13.24	1728	2237	509	17.94	1.29	280,078	834
733	392	11.32	13.13	1932	2229	297	13.98	1.15	113,703	827
1,033	378	11.63	13.02	2256	2513	257	14.52	1.11	74,201	812
948	290	12.81	13.80	2135	2292	157	11.28	1.07	37,956	806
674	191	9.69	12.30	1625	2039	414	17.66	1.25	82,024	824
874	281	10.04	12.93	1862	2352	490	12.92	1.26	82,788	830
1,074	279	14.34	13.75	2111	2028	83-	4.44	0.96	12,678-	821
1,055	327	14.06	13.88	2077	2051	26-	6.44	0.99	3,927-	804
1,025	279	11.61	13.08	1954	2187	233	11.11	1.12	33,904	840
820	346	12.75	13.07	1924	1971	47	6.08	1.02	5,904	105
1,106	217	14.02	12.82	2069	1900	169-	0.99	0.92	20,803-	835
1,083	273	12.66	12.40	2181	2136	45-	3.22	0.98	4,415-	112
572	528	12.28	12.92	1838	1930	92	10.21	1.05	7,416	836

ANNUAL AVERAGES, ALL ENTR, WEIGHTED BY NUMBER OF COWS:

883	313	11.58	13.14	1948	2198	250	11.80	1.13	52,012	1980
793	277	10.32	12.22	1707	2003	296	12.29	1.17	61,442	1979
716	244	9.42	10.92	1498	1726	228	10.78	1.15	46,209	1978
692	213	9.33	9.95	1395	1486	91	6.56	1.06	17,538	1977
666	224	8.91	10.09	1343	1515	172	8.28	1.13	32,259	1976

HEIFERS, 1980  
COSTS PER HEIFER EQUIVALENT  
1081 MATURE-HEIFER EQUIVALENTS ON  
19 COST ACCOUNT FARMS\*

ITEM	AVERAGE PER HEIFER RAISED TO 29 MONTHS
VALUE OF CALF AT BIRTH - - - - -	\$ 125
FEED - MILK AND MILK REPLACER- - - - -	\$ 31
1,682 POUNDS OF DRY GRAIN - - - - -	131
.3 TONS OF HIGH MOISTURE CORN- - - - -	23
1.3 TONS OF HAY - - - - -	69
2.3 TONS OF HAY CROP SILAGE - - - - -	58
7.7 TONS OF CORN SILAGE - - - - -	152
PASTURE AND ALL OTHER FEED- - - - -	43
TOTAL FEED COSTS - - - - -	507
LABOR - 26 HOURS - - - - -	156
TRACTOR, TRUCK - - - - -	36
EQUIPMENT- - - - -	19
BEDDING- - - - -	18
BREEDING - - - - -	13
VET AND MEDICINE - - - - -	11
UTILITIES- - - - -	4
INSURANCE- - - - -	8
INTEREST - - - - -	108
BUILDING USE - - - - -	66
ALL OTHER- - - - -	63
TOTAL OTHER THAN CALF, FEED, LABOR - - - - -	346
TOTAL COSTS - TO RAISE A HEIFER TO 29 MONTHS OF AGE- - -	\$1134

\*THERE WERE A TOTAL OF 2,641 HEIFERS OF ALL AGES ON THESE FARMS FOR A PART OR ALL OF THE YEAR. THEY WERE FED A TOTAL OF 31,355 NET HEIFER-MONTHS, WHICH, DIVIDED BY 29, EQUALS 1,081 MATURE-HEIFER EQUIVALENTS. (HEIFERS RAISED ON CONTRACT ARE NOT INCLUDED.)

FACTORS FROM 19 HEIFER ENTERPRISES  
19 COST ACCOUNT FARMS, 1980  
(ARRANGED BY NUMBER OF HEIFERS)

FARM NO	NUMBER OF HEIFERS	LABOR PER HEIFER HR	AVERAGE AGE AT FRESHENING MO	NET COST* PER HEIFER MONTH \$	PER HEIFER AT FRESHENING COST \$	PER HEIFER AT FRESHENING VALUE \$	RETURN PER HOUR OF LABOR \$	PER \$ OF COST
834	513	8	27	34	1,008	1,000	1.11-	0.87
827	332	7	25	36	1,007	1,000	0.13-	0.88
812	267	6	24	38	1,051	1,200	18.43	1.12
824	169	21	28	38	1,171	1,250	5.17	1.00
830	162	17	26	39	1,214	1,200	7.76	1.09
806	162	8	26	31	950	1,200	17.39	1.17
111	133	12	27	37	1,132	1,100	0.47	0.87
821	129	7	26	24	755	1,000	26.14	1.37
840	124	11	30	34	1,167	1,300	7.37	1.03
835	106	13	25	37	1,038	1,200	2.29	0.95
804	98	7	27	35	1,045	1,100	3.51	0.94
105	97	21	27	41	1,236	1,100	8.24	1.10
112	92	10	27	30	940	1,100	14.58	1.27
836	61	17	29	35	1,113	900	4.09	0.82
146	54	21	27	29	837	800	1.47	0.87
828	43	11	28	24	778	900	7.59-	0.59
127	41	7	24	34	1,003	1,400	31.76	1.36
156	40	14	30	36	1,182	1,000	1.77-	0.86
843	18	7	25	37	1,037	1,100	2.37-	0.88

1980 GROUP AVERAGES, ACCORDING TO NUMBER OF HEIFERS:

THIRDS								
HIGH	268	12	26	36	1,067	1,142	7.92	1.02
MED	111	12	27	34	1,045	1,129	8.94	1.08
LOW	43	13	27	33	992	1,017	4.27	0.90

ANNUAL AVERAGES- ALL ENTR. WEIGHTED BY NUMBER OF HEIFERS:

1980	139	11	26	35	1,042	1,105	5.94	0.99
1979	120	12	27	34	1,048	960	3.97	0.96
1978	124	12	27	29	862	789	2.23	0.92
1977	113	13	27	25	739	605	1.43-	0.78
1976	108	12	28	24	734	566	2.90-	0.72

\* Value of calf excluded.

Note - These enterprises indicate a leveling off of costs to raise heifers to freshening age. The demand for ready-to-freshen heifers was strong enough in 1980 to cause a 15 percent increase in their value over 1979. These factors contributed to nearly a break-even situation for these heifer enterprises as a group.